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PA - (TAKA-I) TAKAHASHI H

PN - JP58041351 A 19830310 DW198316 005pp

- JP2050423B B 19901102 DW199048 000pp

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XIC - B01D-015/08 ; B01J-020/26 ; C01B-031/00 ; G01N-030/48 ; G01N-031/08

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AB - J58041351 Filler is obtd. by alkylating the surface of optical anisotropic fine spherical particles of 1-10 microns in particle size (so-called meso-carbon microbeads) obtd. by heating pitches to 350-500 deg.C.

- The meso-carbon microbeads have large mechanical strength, heat resistance, chemical resistance, little expansion or contraction, large density and uniform surface, and the activity of the microbead filler is suitable as column filler for high performance liq. chromatography. Surface modification of the microbeads is pref. effected by first hydrogenating and then alkylating the surface of the beads by e.g. Friedel-Crafts reaction. Alkylating agent used is e.g. alkyl halogenide such as tetradecyl chloride, hexadecyl chloride, etc. Hydrogenation is carried out at ca. 1000 deg.C.

IW - COLUMN FILL LIQUID CHROMATOGRAPHY COMPRISE SURFACE ALKYLATED OPTICAL ANISOTROPE FINE SPHERE MESO CARBON MICROBEADS

IKW - COLUMN FILL LIQUID CHROMATOGRAPHY COMPRISE SURFACE ALKYLATED OPTICAL ANISOTROPE FINE SPHERE MESO CARBON MICROBEADS

NC - 001

OPD - 1981-09-04

ORD - 1983-03-10

PAW - (TAKA-I) TAKAHASHI H

TI - Column filler for liq. chromatography - comprises surface-alkylated optically anisotropic fine spherical meso-carbon microbeads